SEQUENCE LISTING

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<110> Blaschuk, Orest W.
      Symonds, James Matthew
      Gour, Barbara J.

<120> COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL
      CADHERIN-MEDIATED FUNCTIONS

<130> 100086.407C7

<140> US
<141> 2001-12-03

<160> 4052

<170> PatentIn Ver. 2.0

<210> 1
<211> 5
<212> PRT
<213> Unknown

<220>
<221> VARIANT
<222> (2)
<223> Where Xaa is any amino acid

<220>
<223> Description of Unknown Organism:  Calcium Binding
      Motif in Extracellular domains of Classical
      Cadherins

<400> 1
Asp Xaa Asn Asp Asn
  1               5


<210> 2
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  Calcium Binding
      Motif in Extracellular domains of Classical
      Cadherins

<400> 2
Leu Asp Arg Glu
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<210> 3
<211> 9
<212> PRT
<213> Unknown

<220>
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<222> (1)
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10006869.120301

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<223> Residue is an independently selected amino acid

<220>
<221> VARIANT
<222> (3)
<223> Residue is an independently selected amino acid

<220>
<221> VARIANT
<222> (4)
<223> Where Xaa is Isoleucine, Leucine or Valine

<220>
<221> VARIANT
<222> (5)
<223> Where Xaa is Aspartic Acid, Asparagine or Glutamic
      Acid

<220>
<221> VARIANT
<222> (6)
<223> Residue is an independently selected amino acid

<220>
<221> VARIANT
<222> (7)
<223> Residue is an independently selected amino acid

<220>
<221> VARIANT
<222> (8)
<223> Where Xaa is Serine, Threonine or Asparagine

<220>
<223> Description of Unknown Organism:  Cell Adhesion
      Recognition Sequence of Nonclassical Cadherins

<400> 3
Xaa Phe Xaa Xaa Xaa Xaa Xaa Xaa Gly
  1               5


<210> 4
<211> 110
<212> PRT
<213> Homo sapiens

<400> 4
Arg Ser Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu
  1               5                  10                  15

Tyr Thr Gly Pro Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile
             20                  25                  30

Asp Ser Gly Asp Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala
         35                  40                  45

Gly Thr Ile Phe Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr
     50                  55                  60

Lys Thr Leu Asp Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln
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 65                  70                  75                  80

Ala Val Asp Arg Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe
                85                  90                  95

Ile Val Lys Val Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe
            100                 105                 110


<210> 5
<211> 109
<212> PRT
<213> Homo sapiens

<400> 5
Leu His Glu Thr Tyr His Ala Asn Val Pro Glu Arg Ser Asn Val Gly
  1               5                  10                  15

Thr Ser Val Ile Gln Val Thr Ala Ser Asp Ala Asp Asp Pro Thr Tyr
             20                  25                  30

Gly Asn Ser Ala Lys Leu Val Tyr Ser Ile Leu Glu Gly Gln Pro Tyr
         35                  40                  45

Phe Ser Val Glu Ala Gln Thr Gly Ile Ile Arg Thr Ala Leu Pro Asn
     50                  55                  60

Met Asp Arg Glu Ala Lys Glu Glu Tyr His Val Val Ile Gln Ala Lys
 65                  70                  75                  80

Asp Met Gly Gly His Met Gly Gly Leu Ser Gly Thr Thr Lys Val Thr
                85                  90                  95

Ile Thr Leu Thr Asp Val Asn Asp Asn Pro Pro Lys Phe
            100                 105


<210> 6
<211> 108
<212> PRT
<213> Homo sapiens

<400> 6
Arg Gln Lys Arg Asp Trp Ile Trp Asn Gln Met His Ile Asp Glu Glu
  1               5                  10                  15

Lys Asn Thr Ser Leu Pro His His Val Gly Lys Ile Lys Ser Ser Val
             20                  25                  30

Ser Arg Lys Asn Ala Lys Tyr Leu Leu Lys Gly Glu Tyr Val Gly Lys
         35                  40                  45

Val Phe Arg Val Asp Ala Glu Thr Gly Asp Val Phe Ala Ile Glu Arg
     50                  55                  60

Leu Asp Arg Glu Asn Ile Ser Glu Tyr His Leu Thr Ala Val Ile Val
 65                  70                  75                  80

Asp Lys Asp Thr Gly Glu Asn Leu Glu Thr Pro Ser Ser Phe Thr Ile
                85                  90                  95
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Lys Val His Asp Val Asn Asp Asn Trp Pro Val Phe
            100                 105


<210> 7
<211> 110
<212> PRT
<213> Homo sapiens

<400> 7
Arg Ser Lys Arg Ser Trp Met Trp Asn Gln Phe Phe Leu Leu Glu Glu
  1               5                  10                  15

Tyr Thr Gly Ser Asp Tyr Gln Tyr Val Gly Lys Leu His Ser Asp Gln
            20                  25                  30

Asp Arg Gly Asp Gly Ser Leu Lys Tyr Ile Leu Ser Gly Asp Gly Ala
        35                  40                  45

Gly Asp Leu Phe Ile Ile Asn Glu Asn Thr Gly Asp Ile Gln Ala Thr
    50                  55                  60

Lys Arg Leu Asp Arg Glu Glu Lys Pro Val Tyr Ile Leu Arg Ala Gln
 65                  70                  75                  80

Ala Ile Asn Arg Arg Thr Gly Arg Pro Val Glu Pro Glu Ser Glu Phe
                 85                  90                  95

Ile Ile Lys Ile His Asp Ile Asn Asp Asn Glu Pro Ile Phe
            100                 105                 110


<210> 8
<211> 109
<212> PRT
<213> Homo sapiens

<400> 8
Thr Lys Glu Val Tyr Thr Ala Thr Val Pro Glu Met Ser Asp Val Gly
  1               5                  10                  15

Thr Phe Val Val Gln Val Thr Ala Thr Asp Ala Asp Asp Pro Thr Tyr
            20                  25                  30

Gly Asn Ser Ala Lys Val Val Tyr Ser Ile Leu Gln Gly Gln Pro Tyr
        35                  40                  45

Phe Ser Val Glu Ser Glu Thr Gly Ile Ile Lys Thr Ala Leu Leu Asn
    50                  55                  60

Met Asp Arg Glu Asn Arg Glu Gln Tyr Gln Val Val Ile Gln Ala Lys
 65                  70                  75                  80

Asp Met Gly Gly Gln Met Gly Gly Leu Ser Gly Thr Thr Thr Val Asn
                 85                  90                  95

Ile Thr Leu Thr Asp Val Asn Asp Asn Pro Pro Arg Phe
            100                 105


<210> 9
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<211> 105
<212> PRT
<213> Homo sapiens

<400> 9
Ser Lys Leu Ala Tyr Ile Leu Gln Ile Arg Glu Asp Ala Gln Ile Asn
  1               5                  10                  15

Thr Thr Ile Gly Ser Val Thr Ala Gln Asp Pro Asp Ala Ala Arg Asn
             20                  25                  30

Pro Val Lys Tyr Ser Val Asp Arg His Thr Asp Met Asp Arg Ile Phe
         35                  40                  45

Asn Ile Asp Ser Gly Asn Gly Ser Ile Phe Thr Ser Lys Leu Leu Asp
     50                  55                  60

Arg Glu Thr Leu Leu Trp His Asn Ile Thr Val Ile Ala Thr Glu Ile
 65                  70                  75                  80

Asn Asn Pro Lys Gln Ser Ser Arg Val Pro Leu Tyr Ile Lys Val Leu
                 85                  90                  95

Asp Val Asn Asp Asn Ala Pro Glu Phe
            100                 105


<210> 10
<211> 110
<212> PRT
<213> Gallus gallus

<400> 10
Arg Thr Lys Arg Ser Trp Val Trp Asn Gln Phe Phe Val Leu Glu Glu
  1               5                  10                  15

Tyr Met Gly Ser Asp Pro Leu Tyr Val Gly Lys Leu His Ser Asp Val
             20                  25                  30

Asp Lys Gly Asp Gly Ser Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala
         35                  40                  45

Ser Ser Ile Phe Ile Ile Asp Glu Asn Thr Gly Asp Ile His Ala Thr
     50                  55                  60

Lys Arg Leu Asp Arg Glu Glu Gln Ala Tyr Tyr Thr Leu Arg Ala Gln
 65                  70                  75                  80

Ala His Asp Arg Leu Thr Asn Lys Pro Val Glu Pro Glu Ser Glu Phe
                 85                  90                  95

Val Ile Lys Ile Gln Asp Ile Asn Asp Asn Glu Pro Lys Phe
            100                 105                 110


<210> 11
<211> 109
<212> PRT
<213> Gallus gallus

<400> 11
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Leu Asp Gly Pro Tyr Thr Ala Gly Val Pro Glu Met Ser Pro Val Gly
 1               5                  10                  15

Thr Ser Val Val Gln Val Thr Ala Thr Asp Ala Asp Asp Pro Thr Tyr
            20                  25                  30

Gly Asn Ser Ala Arg Val Val Tyr Ser Ile Leu Gln Gly Gln Pro Tyr
        35                  40                  45

Phe Ser Val Glu Pro Lys Thr Gly Ile Ile Lys Thr Ala Leu Pro Asn
    50                  55                  60

Met Asp Arg Glu Ala Lys Asp Gln Tyr Leu Leu Val Ile Gln Ala Lys
65                  70                  75                  80

Asp Met Val Gly Gln Asn Gly Gly Leu Ser Gly Thr Thr Ser Val Thr
                85                  90                  95

Val Thr Leu Thr Asp Val Asn Asp Asn Pro Pro Arg Phe
            100                 105


<210> 12
<211> 105
<212> PRT
<213> Gallus gallus

<400> 12
Thr Ser Arg Leu Tyr Ser Met Val Val Ser Glu Ala Ala Lys Val Gly
 1               5                  10                  15

Thr Ile Ile Gly Thr Val Ala Ala His Asp Pro Asp Ala Ser Asn Ser
            20                  25                  30

Pro Val Arg Tyr Ser Ile Asp Arg Asn Thr Asp Leu Glu Arg Tyr Phe
        35                  40                  45

Asn Ile Asp Ala Asn Ser Gly Val Ile Thr Thr Ala Lys Ser Leu Asp
    50                  55                  60

Arg Glu Thr Asn Ala Val His Asn Ile Thr Val Leu Ala Met Glu Ser
65                  70                  75                  80

Gln Asn Pro Ala Gln Ile Gly Arg Gly Tyr Val Ala Ile Thr Ile Leu
                85                  90                  95

Asp Ile Asn Asp Asn Ala Pro Glu Phe
            100                 105


<210> 13
<211> 110
<212> PRT
<213> Homo sapiens

<400> 13
Arg Ser Lys Arg Gly Trp Val Trp Asn Gln Met Phe Val Leu Glu Glu
 1               5                  10                  15

Phe Ser Gly Pro Glu Pro Ile Leu Val Gly Arg Leu His Thr Asp Leu
            20                  25                  30
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Asp Pro Gly Ser Lys Lys Ile Lys Tyr Ile Leu Ser Gly Asp Gly Ala
        35                  40                  45

Gly Thr Ile Phe Gln Ile Asn Asp Val Thr Gly Asp Ile His Ala Ile
    50                  55                  60

Lys Arg Leu Asp Arg Glu Glu Lys Ala Glu Tyr Thr Leu Thr Ala Gln
65                  70                  75                  80

Ala Val Asp Trp Glu Thr Ser Lys Pro Leu Glu Pro Pro Ser Glu Phe
                85                  90                  95

Ile Ile Lys Val Gln Asp Ile Asn Asp Asn Ala Pro Glu Phe
            100                 105                 110


<210> 14
<211> 110
<212> PRT
<213> Homo sapiens

<400> 14
Arg Val Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Leu Glu Glu
1               5                   10                  15

Tyr Val Gly Ser Glu Pro Gln Tyr Val Gly Lys Leu His Ser Asp Leu
            20                  25                  30

Asp Lys Gly Glu Gly Thr Val Lys Tyr Thr Leu Ser Gly Asp Gly Ala
        35                  40                  45

Gly Thr Val Phe Thr Ile Asp Glu Thr Thr Gly Asp Ile His Ala Ile
    50                  55                  60

Arg Ser Leu Asp Arg Glu Glu Lys Pro Phe Tyr Thr Leu Arg Ala Gln
65                  70                  75                  80

Ala Val Asp Ile Glu Thr Arg Lys Pro Leu Glu Pro Glu Ser Glu Phe
                85                  90                  95

Ile Ile Lys Val Gln Asp Ile Asn Asp Asn Glu Pro Lys Phe
            100                 105                 110


<210> 15
<211> 109
<212> PRT
<213> Homo sapiens

<400> 15
Leu Asp Gly Pro Tyr Val Ala Thr Val Pro Glu Met Ser Pro Val Gly
1               5                   10                  15

Ala Tyr Val Leu Gln Val Lys Ala Thr Asp Ala Asp Asp Pro Thr Tyr
            20                  25                  30

Gly Asn Ser Ala Arg Val Val Tyr Ser Ile Leu Gln Gly Gln Pro Tyr
        35                  40                  45

Phe Ser Ile Asp Pro Lys Thr Gly Val Ile Arg Thr Ala Leu Pro Asn
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    50                  55                  60

Met Asp Arg Glu Val Lys Glu Gln Tyr Gln Val Leu Ile Gln Ala Lys
 65                  70                  75                  80

Asp Met Gly Gly Gln Leu Gly Gly Leu Ala Gly Thr Thr Ile Val Asn
                85                  90                  95

Ile Thr Leu Thr Asp Val Asn Asp Asn Pro Pro Arg Phe
            100                 105


<210> 16
<211> 110
<212> PRT
<213> Homo sapiens

<400> 16
Arg Pro Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Leu Glu Glu
  1               5                  10                  15

His Met Gly Pro Asp Pro Gln Tyr Val Gly Lys Leu His Ser Asn Ser
             20                  25                  30

Asp Lys Gly Asp Gly Ser Val Lys Tyr Ile Leu Thr Gly Glu Gly Ala
         35                  40                  45

Gly Thr Ile Phe Ile Ile Asp Asp Thr Thr Gly Asp Ile His Ser Thr
    50                  55                  60

Lys Ser Leu Asp Arg Glu Gln Lys Thr His Tyr Val Leu His Ala Gln
 65                  70                  75                  80

Ala Ile Asp Arg Arg Thr Asn Lys Pro Leu Glu Pro Glu Ser Glu Phe
                85                  90                  95

Ile Ile Lys Val Gln Asp Ile Asn Asp Asn Ala Pro Lys Phe
            100                 105                 110


<210> 17
<211> 109
<212> PRT
<213> Homo sapiens

<400> 17
Thr Asp Gly Pro Tyr Ile Val Thr Val Pro Glu Met Ser Asp Met Gly
  1               5                  10                  15

Thr Ser Val Leu Gln Val Thr Ala Thr Asp Ala Asp Asp Pro Thr Tyr
             20                  25                  30

Gly Asn Ser Ala Arg Val Val Tyr Ser Ile Leu Gln Gly Gln Pro Tyr
         35                  40                  45

Phe Ser Val Asp Pro Lys Thr Gly Val Ile Arg Thr Ala Leu His Asn
    50                  55                  60

Met Asp Arg Glu Ala Arg Glu His Tyr Ser Val Val Ile Gln Ala Lys
 65                  70                  75                  80
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```
Asp Met Ala Gly Gln Val Gly Gly Leu Ser Gly Ser Thr Thr Val Asn
                85                  90                  95

Ile Thr Leu Thr Asp Val Asn Asp Asn Pro Pro Arg Phe
            100                 105


<210> 18
<211> 105
<212> PRT
<213> Homo sapiens

<400> 18
Ser Met Pro Ser Tyr Leu Met Glu Val Tyr Glu Asn Ala Lys Ile Gly
  1               5                  10                  15

Thr Val Val Gly Thr Val Leu Ala Gln Asp Pro Asp Ser Thr Asn Ser
            20                  25                  30

Leu Val Arg Tyr Phe Ile Asn Tyr Asn Val Glu Asp Asp Arg Phe Phe
        35                  40                  45

Asn Ile Asp Ala Asn Thr Gly Thr Ile Arg Thr Thr Lys Val Leu Asp
    50                  55                  60

Arg Glu Glu Thr Pro Trp Tyr Asn Ile Thr Val Thr Ala Ser Glu Ile
 65                  70                  75                  80

Asp Asn Pro Asp Leu Leu Ser His Val Thr Val Gly Ile Arg Val Leu
                85                  90                  95

Asp Val Asn Asp Asn Pro Pro Glu Leu
            100                 105


<210> 19
<211> 111
<212> PRT
<213> Homo sapiens

<400> 19
Arg Val Arg Arg Ala Trp Val Ile Pro Pro Ile Ser Val Ser Glu Asn
  1               5                  10                  15

His Lys Arg Leu Pro Tyr Pro Leu Val Gln Ile Lys Ser Asp Lys Gln
            20                  25                  30

Gln Leu Gly Ser Val Ile Tyr Ser Ile Gln Gly Pro Gly Val Asp Glu
        35                  40                  45

Glu Pro Arg Gly Val Phe Ser Ile Asp Lys Phe Thr Gly Lys Val Phe
    50                  55                  60

Leu Asn Ala Met Leu Asp Arg Glu Lys Thr Asp Arg Phe Arg Leu Arg
 65                  70                  75                  80

Ala Phe Ala Leu Asp Leu Gly Gly Ser Thr Leu Glu Asp Pro Thr Asp
                85                  90                  95

Leu Glu Ile Val Val Val Asp Gln Asn Asp Asn Arg Pro Ala Phe
            100                 105                 110
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<210> 20
<211> 108
<212> PRT
<213> Homo sapiens

<400> 20
Leu Gln Glu Ala Phe Thr Gly Arg Val Leu Glu Gly Ala Val Pro Gly
  1               5                  10                  15

Thr Tyr Val Thr Arg Ala Glu Ala Thr Asp Ala Asp Asp Pro Glu Thr
             20                  25                  30

Asp Asn Ala Ala Leu Arg Phe Ser Ile Leu Gln Gln Gly Ser Pro Glu
         35                  40                  45

Leu Phe Ser Ile Asp Glu Leu Thr Gly Glu Ile Arg Thr Val Gln Val
     50                  55                  60

Gly Leu Asp Arg Glu Val Val Ala Val Tyr Asn Leu Thr Leu Gln Val
 65                  70                  75                  80

Ala Asp Met Ser Gly Asp Gly Leu Thr Ala Thr Ala Ser Ala Ile Ile
                 85                  90                  95

Thr Leu Asp Asp Ile Asn Asp Asn Ala Pro Glu Phe
             100                 105


<210> 21
<211> 111
<212> PRT
<213> Homo sapiens

<400> 21
Arg Gln Lys Arg Ser Ile Val Val Ser Pro Ile Leu Ile Pro Glu Asn
  1               5                  10                  15

Gln Arg Gln Pro Phe Pro Arg Asp Val Gly Lys Val Val Asp Ser Asp
             20                  25                  30

Arg Pro Glu Arg Ser Lys Phe Arg Leu Thr Gly Lys Gly Val Asp Gln
         35                  40                  45

Glu Pro Lys Gly Ile Phe Arg Ile Asn Glu Asn Thr Gly Ser Val Ser
     50                  55                  60

Val Thr Arg Thr Leu Asp Arg Glu Val Ile Ala Val Tyr Gln Leu Phe
 65                  70                  75                  80

Val Glu Thr Thr Asp Val Asn Gly Lys Thr Leu Glu Gly Pro Val Pro
                 85                  90                  95

Leu Glu Val Ile Val Ile Asp Gln Asn Asp Asn Arg Pro Ile Phe
             100                 105                 110


<210> 22
<211> 110
<212> PRT
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<213> Rattus norvegicus

<400> 22
Arg Val Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Val Glu Glu
1               5                   10                  15

Tyr Thr Gly Thr Glu Pro Leu Tyr Val Gly Lys Ile His Ser Asp Ser
            20                  25                  30

Asp Glu Gly Asp Gly Thr Ile Lys Tyr Thr Ile Ser Gly Glu Gly Ala
        35                  40                  45

Gly Thr Ile Phe Leu Ile Asp Glu Leu Thr Gly Asp Ile His Ala Thr
    50                  55                  60

Glu Arg Leu Asp Arg Glu Gln Lys Thr Phe Tyr Thr Leu Arg Ala Gln
65                  70                  75                  80

Ala Arg Asp Arg Ala Thr Asn Arg Leu Leu Glu Pro Glu Ser Glu Phe
                85                  90                  95

Ile Ile Lys Val Gln Asp Ile Asn Asp Ser Glu Pro Arg Phe
            100                 105                 110


<210> 23
<211> 109
<212> PRT
<213> Rattus norvegicus

<400> 23
Leu His Gly Pro Tyr Ile Gly Ser Val Ala Glu Leu Ser Pro Thr Gly
1               5                   10                  15

Thr Ser Val Met Gln Val Met Ala Ser Asp Ala Asp Asp Pro Thr Tyr
            20                  25                  30

Gly Ser Ser Ala Arg Leu Val Tyr Ser Val Leu Asp Gly Glu His His
        35                  40                  45

Phe Thr Val Asp Pro Lys Thr Gly Val Ile Arg Thr Ala Val Pro Asp
    50                  55                  60

Leu Asp Arg Glu Ser Gln Glu Arg Tyr Glu Val Val Ile Gln Ala Thr
65                  70                  75                  80

Asp Met Ala Gly Gln Leu Gly Gly Leu Ser Gly Ser Thr Thr Val Thr
                85                  90                  95

Ile Val Val Thr Asp Val Asn Asp Asn Pro Pro Arg Phe
            100                 105


<210> 24
<211> 105
<212> PRT
<213> Rattus norvegicus

<400> 24
Arg Pro Pro Ser Gly Leu Leu Glu Val Gln Glu Asp Ala Gln Val Gly
1               5                   10                  15
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```
Ser Leu Val Gly Val Val Thr Ala Arg Asp Pro Asp Ala Ala Asn Arg
            20                  25                  30

Pro Val Arg Tyr Ala Ile Asp Arg Asp Ser Asp Leu Glu Gln Ile Phe
        35                  40                  45

Asp Ile Asp Ala Asp Thr Gly Ala Ile Val Thr Gly Lys Gly Leu Asp
    50                  55                  60

Arg Glu Thr Ala Gly Trp His Asn Ile Thr Val Leu Ala Met Glu Ala
65                  70                  75                      80

Asp Asn His Ala Gln Leu Ser Arg Ala Ser Leu Arg Ile Arg Ile Leu
                85                  90                  95

Asp Val Asn Asp Asn Pro Pro Glu Leu
            100                 105


<210> 25
<211> 117
<212> PRT
<213> Homo sapiens

<400> 25
Leu Gln Ser Lys Tyr Glu Gly Ser Val Arg Gln Asn Ser Arg Pro Gly
1               5                   10                  15

Lys Pro Phe Leu Tyr Val Asn Ala Thr Asp Leu Asp Asp Pro Ala Thr
            20                  25                  30

Pro Asn Gly Gln Leu Tyr Tyr Gln Ile Val Ile Gln Leu Pro Met Ile
        35                  40                  45

Asn Asn Val Met Tyr Phe Gln Ile Asn Asn Lys Thr Gly Ala Ile Ser
    50                  55                  60

Leu Thr Arg Glu Gly Ser Gln Glu Leu Asn Pro Ala Lys Asn Pro Tyr
65                  70                  75                      80

Asn Leu Val Ile Ser Val Lys Asp Met Gly Gly Gln Ser Glu Asn Ser
                85                  90                  95

Phe Ser Asp Thr Thr Ser Val Asp Ile Ile Val Thr Glu Asn Ile Trp
            100                 105                 110

Lys Ala Pro Ala Pro
        115


<210> 26
<211> 108
<212> PRT
<213> Homo sapiens

<400> 26
Asn Gln Ser Leu Tyr Arg Ala Arg Val Pro Gly Gly Cys Thr Ser Gly
1               5                   10                  15

Thr Arg Val Val Gln Val Leu Ala Thr Asp Leu Asp Glu Gly Pro Asn
```

```
            20                  25                  30

Gly Glu Ile Ile Tyr Ser Phe Gly Ser His Asn Arg Ala Gly Val Arg
        35                  40                  45

Gln Leu Phe Ala Leu Asp Leu Val Thr Gly Met Leu Thr Ile Lys Gly
    50                  55                  60

Arg Leu Asp Phe Glu Asp Thr Lys Leu His Glu Ile Tyr Ile Gln Ala
65                  70                  75                  80

Lys Asp Lys Gly Ala Asn Pro Glu Gly Ala His Cys Lys Val Leu Val
                85                  90                  95

Glu Val Val Asp Val Asn Asp Asn Ala Pro Glu Ile
            100                 105


<210> 27
<211> 110
<212> PRT
<213> Homo sapiens

<400> 27
Ser Gln Ser Ser Tyr Asp Val Tyr Ile Glu Glu Asn Asn Leu Pro Gly
1               5                   10                  15

Ala Pro Ile Leu Asn Leu Ser Val Trp Asp Pro Asp Ala Pro Gln Asn
            20                  25                  30

Ala Arg Leu Ser Phe Phe Leu Leu Glu Gln Gly Ala Glu Thr Gly Leu
        35                  40                  45

Val Gly Arg Tyr Phe Thr Ile Asn Arg Asp Asn Gly Ile Val Ser Ser
    50                  55                  60

Leu Val Pro Leu Asp Tyr Glu Asp Arg Arg Glu Phe Glu Leu Thr Ala
65                  70                  75                  80

His Ile Ser Asp Gly Gly Thr Pro Val Leu Ala Thr Asn Ile Ser Val
                85                  90                  95

Asn Ile Phe Val Thr Asp Arg Asn Asp Asn Ala Pro Gln Val
            100                 105                 110


<210> 28
<211> 108
<212> PRT
<213> Homo sapiens

<400> 28
Glu Ala Pro Ser Tyr Leu Val Glu Leu Pro Glu Asn Thr Pro Leu Gly
1               5                   10                  15

Thr Val Val Ile Asp Leu Asn Ala Thr Asp Ala Asp Glu Gly Pro Asn
            20                  25                  30

Gly Glu Val Leu Tyr Ser Phe Ser Ser Tyr Val Pro Asp Arg Val Arg
        35                  40                  45
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```
Glu Leu Phe Ser Ile Asp Pro Lys Thr Gly Leu Ile Arg Val Lys Gly
     50                  55                  60

Asn Leu Asp Tyr Glu Glu Asn Gly Met Leu Glu Ile Asp Val Gln Ala
 65                  70                  75                  80

Arg Asp Leu Gly Pro Asn Leu Ile Pro Ala His Cys Lys Val Thr Val
                 85                  90                  95

Lys Leu Ile Asp Arg Asn Asp Asn Ala Pro Ser Ile
            100                 105


<210> 29
<211> 89
<212> PRT
<213> Homo sapiens

<400> 29
Val Leu Pro Thr Leu Gln Asn Asp Thr Ala Glu Leu Gln Val Pro Arg
  1               5                  10                  15

Asn Ala Gly Leu Gly Tyr Leu Val Ser Thr Val Arg Ala Leu Asp Ser
             20                  25                  30

Asp Phe Gly Glu Ser Gly Arg Leu Thr Tyr Glu Ile Val Asp Gly Asn
         35                  40                  45

Asp Asp His Leu Phe Glu Ile Asp Pro Ser Ser Gly Glu Ile Arg Thr
     50                  55                  60

Leu His Pro Phe Trp Glu Asp Val Thr Pro Val Val Glu Leu Val Val
 65                  70                  75                  80

Lys Val Thr Asp His Gly Lys Pro Thr
                 85


<210> 30
<211> 112
<212> PRT
<213> Homo sapiens

<400> 30
Arg Gln Lys Arg Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly
  1               5                  10                  15

Glu Asp Asn Ser Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys
             20                  25                  30

Ala Ala Asn Gln Gln Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp
         35                  40                  45

Gln Pro Pro Tyr Gly Ile Phe Val Ile Asn Gln Lys Thr Gly Glu Ile
     50                  55                  60

Asn Ile Thr Ser Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile
 65                  70                  75                  80

Tyr Cys Arg Ala Leu Asn Ser Met Gly Gln Asp Leu Glu Arg Pro Leu
                 85                  90                  95
```

Glu Leu Arg Val Arg Val Leu Asp Ile Asn Asp Asn Pro Pro Val Phe
            100   105   110

<210> 31
<211> 112
<212> PRT
<213> Homo sapiens

<400> 31
Ser Met Ala Thr Phe Ala Gly Gln Ile Glu Glu Asn Ser Asn Ala Asn
1   5   10   15

Thr Leu Val Met Ile Leu Asn Ala Thr Asp Ala Asp Glu Pro Asn Asn
            20   25   30

Leu Asn Ser Lys Ile Ala Phe Lys Ile Ile Arg Gln Glu Pro Ser Asp
        35   40   45

Ser Pro Met Phe Ile Ile Asn Arg Asn Thr Gly Glu Ile Arg Thr Met
    50   55   60

Asn Asn Phe Leu Asp Arg Glu Gln Tyr Gly Gln Tyr Ala Leu Ala Val
65   70   75   80

Arg Gly Ser Asp Arg Asp Gly Gly Ala Asp Gly Met Ser Ala Glu Cys
                85   90   95

Glu Cys Asn Ile Lys Ile Leu Asp Val Asn Asp Asn Ile Pro Tyr Met
            100   105   110

<210> 32
<211> 113
<212> PRT
<213> Homo sapiens

<400> 32
Thr Gln Asp Val Phe Val Gly Ser Val Glu Glu Leu Ser Ala Ala His
1   5   10   15

Thr Leu Val Met Lys Ile Asn Ala Thr Asp Ala Asp Glu Pro Asn Thr
            20   25   30

Leu Asn Ser Lys Ile Ser Tyr Arg Ile Val Ser Leu Glu Pro Ala Tyr
        35   40   45

Pro Pro Val Phe Tyr Leu Asn Lys Asp Thr Gly Glu Ile Tyr Thr Thr
    50   55   60

Ser Val Thr Leu Asp Arg Glu Glu His Ser Ser Tyr Thr Leu Thr Val
65   70   75   80

Glu Ala Arg Asp Gly Asn Gly Glu Val Thr Asp Lys Pro Val Lys Gln

```
                    85                  90                  95

Ala Gln Val Gln Ile Arg Ile Leu Asp Val Asn Asp Asn Ile Pro Val
            100                 105                 110

Val



<210> 33
<211> 107
<212> PRT
<213> Homo sapiens

<400> 33
Arg Trp Ala Pro Ile Pro Ala Ser Leu Met Glu Asn Ser Leu Gly Pro
  1               5                  10                  15

Phe Pro Gln His Val Gln Gln Ile Gln Ser Asp Ala Ala Gln Asn Tyr
             20                  25                  30

Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly Val Asp Lys Glu Pro Phe
         35                  40                  45

Asn Leu Phe Tyr Ile Glu Lys Asp Thr Gly Asp Ile Phe Cys Thr Arg
     50                  55                  60

Ser Ile Asp Arg Glu Lys Tyr Glu Gln Phe Ala Leu Tyr Gly Tyr Ala
 65                  70                  75                  80

Thr Thr Ala Asp Gly Tyr Ala Pro Glu Tyr Pro Leu Pro Leu Ile Ile
                 85                  90                  95

Lys Ile Glu Asp Asp Asn Asp Asn Ala Pro Tyr
            100                 105


<210> 34
<211> 107
<212> PRT
<213> Homo sapiens

<400> 34
Arg Trp Ala Pro Ile Pro Cys Ser Met Leu Glu Asn Ser Leu Gly Pro
  1               5                  10                  15

Phe Pro Leu Phe Leu Gln Gln Val Gln Ser Asp Thr Ala Gln Asn Tyr
             20                  25                  30

Thr Ile Tyr Tyr Ser Ile Arg Gly Pro Gly Val Asp Gln Glu Pro Arg
         35                  40                  45

Asn Leu Phe Tyr Val Glu Arg Asp Thr Gly Asn Leu Tyr Cys Thr Arg
     50                  55                  60

Pro Val Asp Arg Glu Gln Tyr Glu Ser Phe Glu Ile Ile Ala Phe Ala
 65                  70                  75                  80

Thr Thr Pro Asp Gly Tyr Thr Pro Glu Leu Pro Leu Pro Leu Ile Ile
                 85                  90                  95
```

```
Lys Ile Glu Asp Glu Asn Asp Asn Tyr Pro Ile
            100                 105


<210> 35
<211> 107
<212> PRT
<213> Homo sapiens

<400> 35
Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
  1               5                  10                  15

Phe Pro Leu Phe Leu Gln Gln Val Glu Ser Asp Ala Ala Gln Asn Tyr
             20                  25                  30

Thr Val Phe Tyr Ser Ile Ser Gly Arg Gly Val Asp Lys Glu Pro Leu
         35                  40                  45

Asn Leu Phe Tyr Ile Glu Arg Asp Thr Gly Asn Leu Phe Cys Thr Arg
     50                  55                  60

Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
 65                  70                  75                  80

Ser Thr Ala Asp Gly Tyr Ser Ala Asp Leu Pro Leu Pro Leu Pro Ile
                 85                  90                  95

Arg Val Glu Asp Glu Asn Asp Asn His Pro Val
            100                 105


<210> 36
<211> 107
<212> PRT
<213> Homo sapiens

<400> 36
Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
  1               5                  10                  15

Phe Pro Leu Phe Leu Gln Gln Val Glu Ser Asp Ala Ala Gln Asn Tyr
             20                  25                  30

Thr Val Phe Tyr Ser Ile Ser Gly Arg Gly Val Asp Lys Glu Pro Leu
         35                  40                  45

Asn Leu Phe Tyr Ile Glu Arg Asp Thr Gly Asn Leu Phe Cys Thr Arg
     50                  55                  60

Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
 65                  70                  75                  80

Ser Thr Ala Asp Gly Tyr Ser Ala Asp Leu Pro Leu Pro Leu Pro Ile
                 85                  90                  95

Arg Val Glu Asp Glu Asn Asp Asn His Pro Val
            100                 105


<210> 37
```

```
<211> 108
<212> PRT
<213> Mus musculus

<400> 37
Asp Arg Ser Leu Tyr Thr Val Lys Leu Pro Glu Asn Val Pro Asn Gly
  1             5                   10                  15

Thr Leu Val Val Lys Val Asn Ala Ser Asp Leu Asp Glu Gly Val Asn
            20                  25                  30

Gly Asp Ile Met Tyr Ser Phe Ser Thr Asp Ile Ser Pro Asn Val Lys
        35                  40                  45

Tyr Lys Phe His Ile Asp Pro Val Ser Gly Glu Ile Ile Val Lys Gly
    50                  55                  60

Tyr Ile Asp Phe Glu Glu Cys Lys Ser Tyr Glu Ile Leu Ile Glu Gly
 65                 70                  75                      80

Ile Asp Lys Gly Gln Leu Pro Leu Ser Gly His Cys Lys Val Ile Val
                85                  90                  95

Gln Val Glu Asp Ile Asn Asp Asn Val Pro Glu Leu
            100                 105


<210> 38
<211> 108
<212> PRT
<213> Mus musculus

<400> 38
Gln His Pro Glu Tyr Glu Val Arg Ile Leu Glu Asn Ser Asp Asn Gly
  1             5                   10                  15

Thr Thr Val Ile Arg Leu Asn Ala Ser Asp Lys Asp Glu Gly Thr Asn
            20                  25                  30

Ser Ala Ile Ser Tyr Ser Phe Asn Arg Leu Val Pro Pro Lys Thr Leu
        35                  40                  45

Glu Gln Phe Ser Ile Asp Ala Asp Thr Gly Glu Ile Ile Thr Gln Gly
    50                  55                  60

Asn Leu Asp Phe Glu Gln Val Asp Val Tyr Lys Ile His Val Asp Ala
 65                 70                  75                      80

Thr Asp Lys Gly His Pro Pro Met Val Gly His Cys Thr Val Leu Val
                85                  90                  95

Lys Val Leu Asp Glu Asn Asp Asn Val Pro Gln Ile
            100                 105


<210> 39
<211> 108
<212> PRT
<213> Mus musculus

<400> 39
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```
Asp Arg Ala Ile Tyr Arg Val Lys Leu Val Glu Asn Ala Arg Asn Gly
 1               5                  10                  15

Thr Val Val Ile Arg Leu Asn Ala Ser Asp Leu Asp Glu Gly Ser Asn
            20                  25                  30

Gly Gln Ile Leu Tyr Ser Phe Ala Ala Asp Val Ser Pro Lys Thr Glu
        35                  40                  45

Ala Thr Phe His Ile Asp Ser Val Ser Gly Glu Ile Lys Val Asn Gly
    50                  55                  60

Lys Ile Asp Phe Glu Glu Thr Asn Leu Trp Lys Ile Gln Ala Glu Ala
65                  70                  75                  80

Val Asp Lys Gly Ser Pro Pro Met Phe Gly His Cys Thr Ile Leu Ile
                85                  90                  95

Glu Val Leu Asp Ile Asn Asp Asn Ala Pro Lys Ile
            100                 105


<210> 40
<211> 108
<212> PRT
<213> Mus musculus

<400> 40
Asp Arg Phe Val Tyr Lys Val Lys Val Leu Glu Asp Ala Leu Asn Gly
 1               5                  10                  15

Thr Leu Val Ile Asn Leu Asn Ala Thr Asp Pro Asp Glu Gly Ile Asn
            20                  25                  30

Gly Asp Ile Ile Tyr Ser Phe Arg Arg Pro Val Ser Pro Ala Val Val
        35                  40                  45

His Ala Phe Asn Ile Asp Ser Asn Ser Gly Glu Val Arg Thr Lys Gly
    50                  55                  60

Leu Leu Asp Phe Glu Glu Ile Lys Leu Tyr Glu Ile Pro Val Glu Ala
65                  70                  75                  80

Val Asp Lys Gly Asn Ile Pro Met Thr Gly His Cys Thr Leu Leu Val
                85                  90                  95

Glu Leu Leu Asp Val Asn Asp Asn Ala Pro Glu Val
            100                 105


<210> 41
<211> 108
<212> PRT
<213> Mus musculus

<400> 41
Asp Lys Ser Ile Tyr Asn Val Arg Leu Leu Glu Asn Thr Pro Asn Gly
 1               5                  10                  15

Thr Leu Val Ile Lys Leu Asn Ala Ser Asp Ala Asp Glu Gly Ile Asn
            20                  25                  30
```

```
Lys Glu Ile Leu Tyr Phe Phe Ser Asn Leu Val Leu Asp Asp Val Lys
         35                  40                  45

Ser Lys Phe Thr Ile Asp Ser Ser Ser Gly Glu Ile Lys Val Lys Gly
     50                  55                  60

Glu Leu Asp Tyr Glu Asp Cys Lys Val Tyr Glu Ile Asn Ile Asp Ala
 65                  70                  75                  80

Val Asp Arg Ser Ala Phe Pro Leu Ala Gly His Cys Lys Ile Ile Val
                 85                  90                  95

Lys Leu Val Asp Val Asn Asp Asn Val Pro Glu Met
            100                 105


<210> 42
<211> 107
<212> PRT
<213> Mus musculus

<400> 42
Asp His Leu Glu Tyr Lys Val Arg Ile Met Glu Asn Ala Ala Lys Glu
  1               5                  10                  15

Thr Leu Val Ile Thr Leu Asn Ala Thr Asp Leu Asp Glu Gly Ala Asn
             20                  25                  30

Gly Gln Leu Val Tyr Ser Leu Met Ser Ile Lys Pro Thr Gly Arg His
         35                  40                  45

Leu Phe Thr Leu Asp Glu Lys Asn Gly Glu Leu Arg Val Asn Gly Thr
     50                  55                  60

Leu Asp Tyr Glu Glu Asn Lys Leu Tyr Glu Ile Glu Val Leu Ala Thr
 65                  70                  75                  80

Asp Lys Gly Thr Pro Pro Met Val Gly His Cys Val Val Leu Val Glu
                 85                  90                  95

Ile Leu Asp Thr Asn Asp Asn Ser Pro Glu Val
            100                 105


<210> 43
<211> 108
<212> PRT
<213> Mus musculus

<400> 43
Asp Arg Ser Val Tyr Glu Val Lys Met Tyr Glu Asn Gln Glu Asn Lys
  1               5                  10                  15

Thr Leu Val Ile Trp Leu Asn Ala Thr Asp Ser Asp Glu Gly Ile Asn
             20                  25                  30

Lys Glu Val Glu Tyr Ser Phe Ser Ser Leu Ala Ser Ser Ile Ile Arg
         35                  40                  45

Gln Lys Phe Leu Ile Asn Glu Lys Thr Gly Glu Ile Lys Ile Asn Gly
```

```
     50                  55                  60

Ala Ile Asp Phe Glu Glu Ser Asn Asn Tyr Glu Ile His Val Asp Ala
 65                  70                  75                  80

Thr Asp Lys Gly Tyr Pro Pro Met Val Ala His Cys Thr Val Leu Val
                 85                  90                  95

Glu Ile Leu Asp Glu Asn Asp Asn Ala Pro Glu Ile
            100                 105


<210> 44
<211> 106
<212> PRT
<213> Homo sapiens

<400> 44
Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu Tyr Thr Gly Pro
  1               5                  10                  15

Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile Asp Ser Gly Asp
            20                  25                  30

Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala Gly Thr Ile Phe
        35                  40                  45

Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr Lys Thr Leu Asp
    50                  55                  60

Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln Ala Val Asp Arg
 65                  70                  75                  80

Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe Ile Val Lys Val
                 85                  90                  95

Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe
            100                 105


<210> 45
<211> 106
<212> PRT
<213> Mus musculus

<400> 45
Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu Tyr Thr Gly Pro
  1               5                  10                  15

Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile Asp Ser Gly Asp
            20                  25                  30

Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala Gly Thr Ile Phe
        35                  40                  45

Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr Lys Thr Leu Asp
    50                  55                  60

Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln Ala Val Asp Arg
 65                  70                  75                  80
```

```
Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe Ile Val Lys Val
                 85                  90                  95

Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe
            100                 105


<210> 46
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  Calcium Binding
      Motifs in the Extracellular Domains of
      Nonclassical Cadherins

<220>
<221> VARIANT
<222> (1)
<223> Where Xaa is any amino acid

<220>
<221> VARIANT
<222> (3)
<223> Where Xaa is any amino acid

<400> 46
Xaa Asp Xaa Glu
  1


<210> 47
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  Calcium Binding
      Motifs in the Extracellular Domains of
      Nonclassical Cadherins

<220>
<221> VARIANT
<222> (2)
<223> Where Xaa is any amino acid

<220>
<221> VARIANT
<222> (3)
<223> Where Xaa is any amino acid

<220>
<221> VARIANT
<222> (5)
<223> Where Xaa is any amino acid

<400> 47
Asp Xaa Xaa Asp Xaa
  1               5
```

```
<210> 48
<211> 5
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  Clasical
      Cadherin Cell Adhesion Recognition Sequence

<400> 48
Tyr Ile Gly Ser Arg
  1               5


<210> 49
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  Clasical
      Cadherin Cell Adhesion Recognition Sequence

<400> 49
Lys Tyr Ser Phe Asn Tyr Asp Gly Ser Glu
  1               5                  10


<210> 50
<211> 17
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  N-CAM Heparin
      Sulfate-Binding Site

<400> 50
Ile Trp Lys His Lys Gly Arg Asp Val Ile Leu Lys Lys Asp Val Arg
  1               5                  10                  15

Phe


<210> 51
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  Putative Claudin
      Cell Adhesion Recognition Sequence

<400> 51
Ile Tyr Ser Tyr
  1


<210> 52
```

```
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  Occludin Cell
      Adhesion Recognition Sequence

<400> 52
Leu Tyr His Tyr
  1


<210> 53
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Cyclic Peptide

<220>
<221> VARIANT
<222> (2)
<223> Where Xaa is beta,beta-tetramethylene cysteine

<220>
<223> Description of Artificial Sequence:  Product of
      Synthesis and Cyclization based on Human
      OB-Cadherin

<400> 53
Ile Xaa Val Ile Asp Asp Lys Ser Cys Glu
  1               5                  10


<210> 54
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:  Product of
      Synthesis and Cyclization based on Human
      OB-Cadherin

<220>
<223> Cyclic Peptide

<220>
<221> VARIANT
<222> (2)
<223> Where Xaa is beta,beta-pentamethylene cysteine

<400> 54
Ile Xaa Val Ile Asp Asp Lys Ser Gly Cys
  1               5                  10


<210> 55
<211> 9
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<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:  Product of
      Synthesis and Cyclization based on Human
      OB-Cadherin

<220>
<223> Cyclic Peptide

<220>
<221> VARIANT
<222> (1)
<223> Where Xaa is beta-mercaptopropionic acid

<400> 55
Xaa Val Ile Asp Asp Lys Ser Gly Cys
  1               5


<210> 56
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:  Product of
      Synthesis and Cyclization based on Human
      OB-Cadherin

<220>
<223> Cyclic Peptide

<220>
<221> VARIANT
<222> (1)
<223> Where Xaa is
      beta,beta-pentamethylene-beta-mercaptopropionic
      acid

<400> 56
Xaa Val Ile Asp Asp Lys Ser Gly Cys
  1               5


<210> 57
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Cyclic Peptide

<220>
<221> VARIANT
<222> (4)
<223> Where Xaa is D-Serine

<220>
<223> Description of Artificial Sequence:  Product of
```

```
      Synthesis and Cyclization based on Human
      OB-Cadherin

<400> 57
Asp Asp Lys Xaa Ser
  1               5


<210> 58
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:  Product of
      Synthesis and Cyclization based on Human
      OB-Cadherin

<220>
<223> Cyclic Peptide

<400> 58
Trp Gly Gly Trp
  1


<210> 59
<211> 6
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  E-Cadherin Cell
      Adhesion Recognition Sequence

<400> 59
Ser His Ala Val Ser Ser
  1               5


<210> 60
<211> 6
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  N-Cadherin Cell
      Adhesion Recognition Sequence

<400> 60
Ala His Ala Val Asp Ile
  1               5


<210> 61
<211> 15
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  N-Cadherin Cell
```

```
      Adhesion Recognition Sequence

<400> 61
Phe His Leu Arg Ala His Ala Val Asp Ile Asn Gly Asn Gln Val
  1               5                  10                  15


<210> 62
<211> 48
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  Occludin Cell
      Adhesion Recognition Sequence

<400> 62
Gly Val Asn Pro Thr Ala Gln Ser Ser Gly Ser Leu Tyr Gly Ser Gln
  1               5                  10                  15

Ile Tyr Ala Leu Cys Asn Gln Phe Tyr Thr Pro Ala Ala Thr Gly Leu
             20                  25                  30

Tyr Val Asp Gln Tyr Leu Tyr His Tyr Cys Val Val Asp Pro Gln Glu
         35                  40                  45




<210> 63
<211> 10
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  N-CAM Cell
      Adhesion Recognition Sequence

<400> 63
Lys Tyr Ser Phe Asn Tyr Asp Gly Ser Glu
  1               5                  10


<210> 64
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:  Product of
      Synthesis based on Human Cadherin-5 Cell Adhesion
      Recognition Sequence

<400> 64
Val Phe Arg Val Asp Ala Glu Thr Gly Asp
  1               5                  10


<210> 65
<211> 4
```

```
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  Calcium Binding
      Motifs in the Extracellular Domains of
      Nonclassical Cadherins

<400> 65
Met Asp Arg Glu
  1


<210> 66
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  Calcium Binding
      Motifs in the Extracellular Domains of
      Nonclassical Cadherins

<400> 66
Leu Asp Phe Glu
  1


<210> 67
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  Calcium Binding
      Motifs in the Extracellular Domains of
      Nonclassical Cadherins

<400> 67
Leu Asp Tyr Glu
  1


<210> 68
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  Calcium Binding
      Motifs in the Extracellular Domains of
      Nonclassical Cadherins

<400> 68
Ile Asp Arg Glu
  1


<210> 69
<211> 4
<212> PRT
```

```
<213> Unknown

<220>
<223> Description of Unknown Organism:  Calcium Binding
      Motifs in the Extracellular Domains of
      Nonclassical Cadherins

<400> 69
Val Asp Arg Glu
  1


<210> 70
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  Calcium Binding
      Motifs in the Extracellular Domains of
      Nonclassical Cadherins

<400> 70
Ile Asp Phe Glu
  1


<210> 71
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> VARIANT
<222> (5)
<223> Where Xaa is beta,beta-dimethyl cysteine

<220>
<223> Cyclic Peptide

<220>
<223> Description of Artificial Sequence:  Product of
      Synthesis and Cyclization based on Human
      OB-cadherin

<400> 71
Cys Asp Asp Lys Xaa
  1               5


<210> 72
<211> 11
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism:  Calcium Binding
      Motifs in Extracellular Domains of Nonclassical
      Cadherins

<220>
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<221> VARIANT
<222> (1)
<223> Where Xaa is any amino acid

<220>
<221> VARIANT
<222> (2)
<223> Where Xaa is any amino acid

<220>
<221> VARIANT
<222> (3)
<223> Where Xaa is any amino acid

<220>
<221> VARIANT
<222> (4)
<223> Where Xaa is any amino acid

<220>
<221> VARIANT
<222> (6)
<223> Where Xaa is any amino acid

<220>
<221> VARIANT
<222> (9)
<223> Where Xaa is any amino acid

<220>
<221> VARIANT
<222> (10)
<223> Where Xaa is any amino acid

<400> 72
Xaa Xaa Xaa Xaa Asp Xaa Asn Asp Xaa Xaa Pro
  1               5                   10

       <210> 73
       <211> 4
       <212> PRT
       <213> Artificial Sequence

       <220>
       <223> Representative linear modulating agent based on
             OB-cadherin cell adhesion recognition sequence

       <400> 73
 Asp Asp Lys Ser
  1

       <210> 74
       <211> 5
       <212> PRT
       <213> Artificial Sequence

       <220>
       <223> Representative linear modulating agent based on
             OB-cadherin cell adhesion recognition sequence
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<400> 74
Val Ile Asp Asp Lys
1 5

<210> 75
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Representative linear modulating agent based on OB-cadherin cell adhesion recognition sequence

<400> 75
Ile Asp Asp Lys Ser
1 5

<210> 76
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Representative linear modulating agent based on OB-cadherin cell adhesion recognition sequence

<400> 76
Val Ile Asp Asp Lys Ser
1 5

<210> 77
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Representative linear modulating agent based on OB-cadherin cell adhesion recognition sequence

<400> 77
Asp Asp Lys Ser Gly
1 5

<210> 78
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Representative linear modulating agent based on OB-cadherin cell adhesion recognition sequence

<400> 78
Ile Asp Asp Lys Ser Gly
1 5

<210> 79

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      <211> 7
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 79
Val Ile Asp Asp Lys Ser Gly
 1               5

      <210> 80
      <211> 6
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 80
Phe Val Ile Asp Asp Lys
 1               5

      <210> 81
      <211> 7
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 81
Phe Val Ile Asp Asp Lys Ser
 1               5

      <210> 82
      <211> 8
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 82
Phe Val Ile Asp Asp Lys Ser Gly
 1               5

      <210> 83
      <211> 7
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 83
Ile Phe Val Ile Asp Asp Lys
 1               5

      <210> 84
      <211> 8
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 84
Ile Phe Val Ile Asp Asp Lys Ser
 1               5

      <210> 85
      <211> 9
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 85
Ile Phe Val Ile Asp Asp Lys Ser Gly
 1               5

      <210> 86
      <211> 4
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 86
Ile Glu Glu Tyr
 1

      <210> 87
      <211> 4
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 87
Glu Glu Tyr Thr
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1

<210> 88
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Representative linear modulating agent based on OB-cadherin cell adhesion recognition sequence

<400> 88
Val Ile Glu Glu Tyr
1 5

<210> 89
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Representative linear modulating agent based on OB-cadherin cell adhesion recognition sequence

<400> 89
Ile Glu Glu Tyr Thr
1 5

<210> 90
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Representative linear modulating agent based on OB-cadherin cell adhesion recognition sequence

<400> 90
Val Ile Glu Glu Tyr Thr
1 5

<210> 91
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Representative linear modulating agent based on OB-cadherin cell adhesion recognition sequence

<400> 91
Glu Glu Tyr Thr Gly
1 5

<210> 92
<211> 6
<212> PRT

```
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 92
Ile Glu Glu Tyr Thr Gly
 1               5

      <210> 93
      <211> 7
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 93
Val Ile Glu Glu Tyr Thr Gly
 1               5

      <210> 94
      <211> 6
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 94
Phe Val Ile Glu Glu Tyr
 1               5

      <210> 95
      <211> 7
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 95
Phe Val Ile Glu Glu Tyr Thr
 1               5

      <210> 96
      <211> 8
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence
      <400> 96
Phe Val Ile Glu Glu Tyr Thr Gly
 1               5

      <210> 97
      <211> 7
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 97
Phe Phe Val Ile Glu Glu Tyr
 1               5

      <210> 98
      <211> 8
      <212> PRT
      <213> Artificial Sequence

      <220>
      <223> Representative linear modulating agent based on
            OB-cadherin cell adhesion recognition sequence

      <400> 98
Phe Phe Val Ile Glu Glu Tyr Thr
 1               5

      <210> 99
      <211> 9
      <212> PRT
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      <220>
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OB-cadherin cell adhesion recognition sequence

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           OB-cadherin cell adhesion recognition sequence

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           OB-cadherin cell adhesion recognition sequence

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 1               5                  10

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1 5

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1 5

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 1               5

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            OB-cadherin cell adhesion recognition sequence

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 1               5

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            OB-cadherin cell adhesion recognition sequence

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 1               5                   10

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            OB-cadherin cell adhesion recognition sequence

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            OB-cadherin cell adhesion recognition sequence

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            OB-cadherin cell adhesion recognition sequence

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 1               5                   10

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            OB-cadherin cell adhesion recognition sequence

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            OB-cadherin cell adhesion recognition sequence

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              OB-cadherin cell adhesion recognition sequence

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            OB-cadherin cell adhesion recognition sequence

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            OB-cadherin cell adhesion recognition sequence

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 1               5                  10

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            OB-cadherin cell adhesion recognition sequence

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cadherin-6 cell adhesion recognition sequence

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 1               5                  10

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 1               5                  10

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 1              5

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 1              5

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 1              5

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1               5

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cadherin-7 cell adhesion recognition sequence

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cadherin-7 cell adhesion recognition sequence

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 1               5

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 1               5

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1   5

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            cadherin-7 cell adhesion recognition sequence

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cadherin-7 cell adhesion recognition sequence

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cadherin-7 cell adhesion recognition sequence

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            cadherin-7 cell adhesion recognition sequence

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 1               5

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            cadherin-7 cell adhesion recognition sequence

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 1               5

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            cadherin-7 cell adhesion recognition sequence

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 1               5                  10

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 1               5                   10

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            cadherin-7 cell adhesion recognition sequence

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1 5

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1 5

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1 5

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1 5

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1 5

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 1               5

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 1               5

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            cadherin-12 cell adhesion recognition sequence

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            cadherin-12 cell adhesion recognition sequence

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            cadherin-12 cell adhesion recognition sequence

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cadherin-14 cell adhesion recognition sequence

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              cadherin-14 cell adhesion recognition sequence

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            cadherin-14 cell adhesion recognition sequence

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      <220>
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Glu Ile Phe Ile Ile Asp Asp Thr Lys
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      <220>
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            cadherin-14 cell adhesion recognition sequence

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            cadherin-14 cell adhesion recognition sequence

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 1               5

      <210> 1916
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       <210> 1918
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       <210> 1919
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       <210> 1921
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            cadherin-14 cell adhesion recognition sequence

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            cadherin-14 cell adhesion recognition sequence

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 1               5                  10

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Ile Asp Asp Thr Thr
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            cadherin-14 cell adhesion recognition sequence

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Ile Ile Asp Asp Thr Thr
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            cadherin-14 cell adhesion recognition sequence

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Asp Asp Thr Thr Gly
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            cadherin-14 cell adhesion recognition sequence

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Ile Asp Asp Thr Thr Gly
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            cadherin-14 cell adhesion recognition sequence

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Lys Asp Asp Thr Glu
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      <220>
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            cadherin-14 cell adhesion recognition sequence

      <400> 1931
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      <220>
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            cadherin-14 cell adhesion recognition sequence

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      <220>
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            cadherin-14 cell adhesion recognition sequence

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Lys Ile Ile Asp Asp Thr Glu
 1              5

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      <220>
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            cadherin-14 cell adhesion recognition sequence

      <400> 1934
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Lys Ile Asp Asp Thr Thr Glu
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<210> 1935
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<212> PRT
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<220>
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<210> 1936
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<212> PRT
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<210> 1937
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<220>
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<210> 1938
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<212> PRT
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<220>
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<400> 1938
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        <220>
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Lys Phe Ile Ile Asp Asp Thr Thr Gly Glu
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 1               5                  10

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      <220>
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            cadherin-14 cell adhesion recognition sequence

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 1               5                  10

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      <212> PRT
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      <220>
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            cadherin-14 cell adhesion recognition sequence

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Cys Asp Pro Lys Cys
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      <210> 1946
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      <220>
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            cadherin-14 cell adhesion recognition sequence

      <400> 1946
Cys Val Asp Pro Lys Cys
 1               5

      <210> 1947
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      <212> PRT
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      <220>
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            cadherin-14 cell adhesion recognition sequence

      <400> 1947
Cys Val Asp Pro Lys Thr Cys
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      <210> 1948
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            cadherin-14 cell adhesion recognition sequence

      <400> 1948
Cys Val Asp Pro Lys Thr Gly Cys
 1               5

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      <220>
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            cadherin-14 cell adhesion recognition sequence

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Cys Ser Val Asp Pro Lys Cys
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      <210> 1950
      <211> 8
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      <220>
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            cadherin-14 cell adhesion recognition sequence

      <400> 1950
Cys Ser Val Asp Pro Lys Thr Cys
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      <220>
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            cadherin-14 cell adhesion recognition sequence

      <400> 1951
Cys Ser Val Asp Pro Lys Thr Gly Cys
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Cys Phe Ser Val Asp Pro Lys Thr Cys
 1               5

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Cys Phe Ser Val Asp Pro Lys Thr Gly Cys
 1               5                   10

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Cys Tyr Phe Ser Val Asp Pro Lys Cys
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      <400> 1957
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 1               5                   10

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Cys Asp Ala Asn Cys
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      <210> 1959
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      <220>
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 1               5                   10

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 1              5

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 1               5

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            Protocadherin cell adhesion recognition sequence

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 1               5

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            Protocadherin cell adhesion recognition sequence

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            Protocadherin cell adhesion recognition sequence

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            Protocadherin cell adhesion recognition sequence

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      <210> 2864
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 1               5

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 1               5

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            Protocadherin cell adhesion recognition sequence

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 1               5

      <210> 2868
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 1               5                   10

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 1               5

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 1               5                   10
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            Protocadherin cell adhesion recognition sequence

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 1               5                   10

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            Protocadherin cell adhesion recognition sequence

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            Protocadherin cell adhesion recognition sequence

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      <210> 2876
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            Protocadherin cell adhesion recognition sequence

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 1               5

      <210> 2879
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<210> 2880
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<400> 2881
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 1   5

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            Protocadherin cell adhesion recognition sequence

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 1               5

      <210> 2886
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            Protocadherin cell adhesion recognition sequence

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 1               5                   10

      <210> 2887
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            Protocadherin cell adhesion recognition sequence

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      <210> 2888
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<210> 2894
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<210> 2895
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<210> 2905
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<220>
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Protocadherin cell adhesion recognition sequence

<400> 2905
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<400> 2906
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<210> 2907
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      Protocadherin cell adhesion recognition sequence

<400> 2907
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 1               5

<210> 2908
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<400> 2908
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<210> 2909
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 1               5

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Lys Phe Thr Ile Asn Arg Asp Glu
1 5

<210> 2915
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<210> 2917
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<400> 2917
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1 5

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Protocadherin cell adhesion recognition sequence

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Protocadherin cell adhesion recognition sequence

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Protocadherin cell adhesion recognition sequence

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            Protocadherin cell adhesion recognition sequence

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            Protocadherin cell adhesion recognition sequence

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            Protocadherin cell adhesion recognition sequence

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Protocadherin cell adhesion recognition sequence

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 1               5                   10

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Desmocollin cell adhesion recognition sequence

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1 5

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1 5

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            cadherin-related neuronal receptor cell adhesion
            recognition sequence

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            cadherin-related neuronal receptor cell adhesion
            recognition sequence

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recognition sequence

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recognition sequence

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             recognition sequence

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            recognition sequence

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recognition sequence

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 1               5                   10

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cadherin-7 cell adhesion recognition sequence

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1 5 10

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 1               5                   10

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